

Manufacturing

Total Participants

Over the eight month standards revision process, the Department involved:

- Over **20 Teachers** to give input, review, or discuss the revised standards during the process
- **Key industry stakeholders** to review and give feedback on draft standards

Results

Offerings in the Manufacturing career cluster were critically evaluated and revised. The result of this effort includes the following proposed changes:

Course Changes		
Revised Courses	1	Introduction to Electromechanical
New Courses	2	Mechatronics I and II
Program of Study Changes		
New Programs of Study	1	Mechatronics program of study
Revised Programs of Study	2	Revised existing programs of study with updated course standards.

Review Process: Research, Data Gathering, and Reviewers

Throughout the data gathering phase of the review, the Manufacturing consultant referenced the following:

Curriculum References	<ul style="list-style-type: none">• Mechatronics I & II special courses offered by Warren County High School/Motlow State Community College/Bridgestone partnership• Electromechanical Technology Program Competencies, Regional Center for Advanced Manufacturing (RCAM) at Northeast State Community College• Electromechanical Manufacturing Laboratory syllabus, New York City College of Technology (City Tech).• Electro-Mechanical Technology Program Outcomes, Fox Valley Technical College
Tennessee Educators	<ol style="list-style-type: none">1. CTE Directors Survey – 2012<ul style="list-style-type: none">• 95 responses2. CTE Teachers Survey – 2013<ul style="list-style-type: none">• 13 Manufacturing Teacher responses3. Experienced, Effective CTE Teacher Reviewers<ul style="list-style-type: none">• 2 teacher reviewers• Middle and West• Average years of experience: 11.5
Business and Industry	<p>Industry Advisory Council recommendations, including specific comments from:</p> <ul style="list-style-type: none">• Principal Technologist, Eastman Chemical• Division Training Coordinator, Eastman Chemical• Motlow State Community College• Middle Tennessee State University• Body Maintenance Engineer, Nissan

Feedback and Comments

“This POS is an excellent first step towards electromechanical associate degree programs and employment.” – Postsecondary Reviewer

“This program blends both electronics and mechanical...the dual path is important.” – Industry Reviewer